ABB BALDOR RELIANCE

# Customer information packet

## CEM3661T

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0632M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 182TC |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 3.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CURUSEEV |
| | NEMA PREMIUM |
| | NEMA PREMIUM (OLD LOGO) |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 8.200 A @ 230.0 V |
| | 8.600 A @ 208.0 V |
| | 4.100 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | N |
| **Type** | AC |
| **Mech. spec.** | 06F057 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 06WGX181 |
| **Layout** | 06LYF057 |
| **Eff. date** | 02-26-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 10-04-2011 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 4.1 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0632M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 15.98 IN |
| **Power Factor** | 77 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1755 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |

| | |
|---|---|
| **Winding Thermal 2** | None |

**Nameplate**

| NP3441LUA | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEM3661T | | | | | | | | | |
| **SPEC** | 06F057X181G1 | | | | | | | | | |
| **HP** | 3 | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMPS** | 8.2/4.1 | | | | | | | | | |
| **RPM** | 1755 | | | | | | | | | |
| **FRAME** | 182TC | **HZ** | 60 | **PH** | 3 | | | | | |
| **SF** | 1.15 | **CODE** | J | **DES** | B | **CLASS** | F | | | |
| **NEMA NOM. EFF** | 89.5 | **PF** | 77 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | 010A | | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | | | |
| **VPWM INVERTER READY** | SFA 9.2/4.6 | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | | |
| | 50HZ 3HP 190/380V 9.6/4.8A | | | | | | | | | SF1.0 |

**AC Induction Motor Performance Data**
Record # 35861
Typical performance - not guaranteed values

| **Winding:** 06WGX181-R006 | **Type:** 0632M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 9.06 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 8.2/4.1 | **Breakdown Torque** | 33.1 LB-FT |
| **R.P.M.** | | | 1755 | **Pull-up Torque** | 18.2 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 20.4 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | J | **Starting Current** | 29.8 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.14 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 77 | **Line-line Res. @ 25ºC** | 3.94 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 35°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 42°C |
| | | | | **Locked-rotor Power Factor** | 41.4 |
| | | | | **Rotor inertia** | 0.298 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 38 | 58 | 70 | 77 | 81 | 83 | 79 |
| **Efficiency** | 83.2 | 88.3 | 89.8 | 89.7 | 89.1 | 87.7 | 89.3 |
| **Speed** | 1790 | 1779 | 1769 | 1757 | 1744 | 1730 | 1749 |
| **Line amperes** | 2.34 | 2.79 | 3.39 | 4.1 | 4.91 | 5.86 | 4.59 |

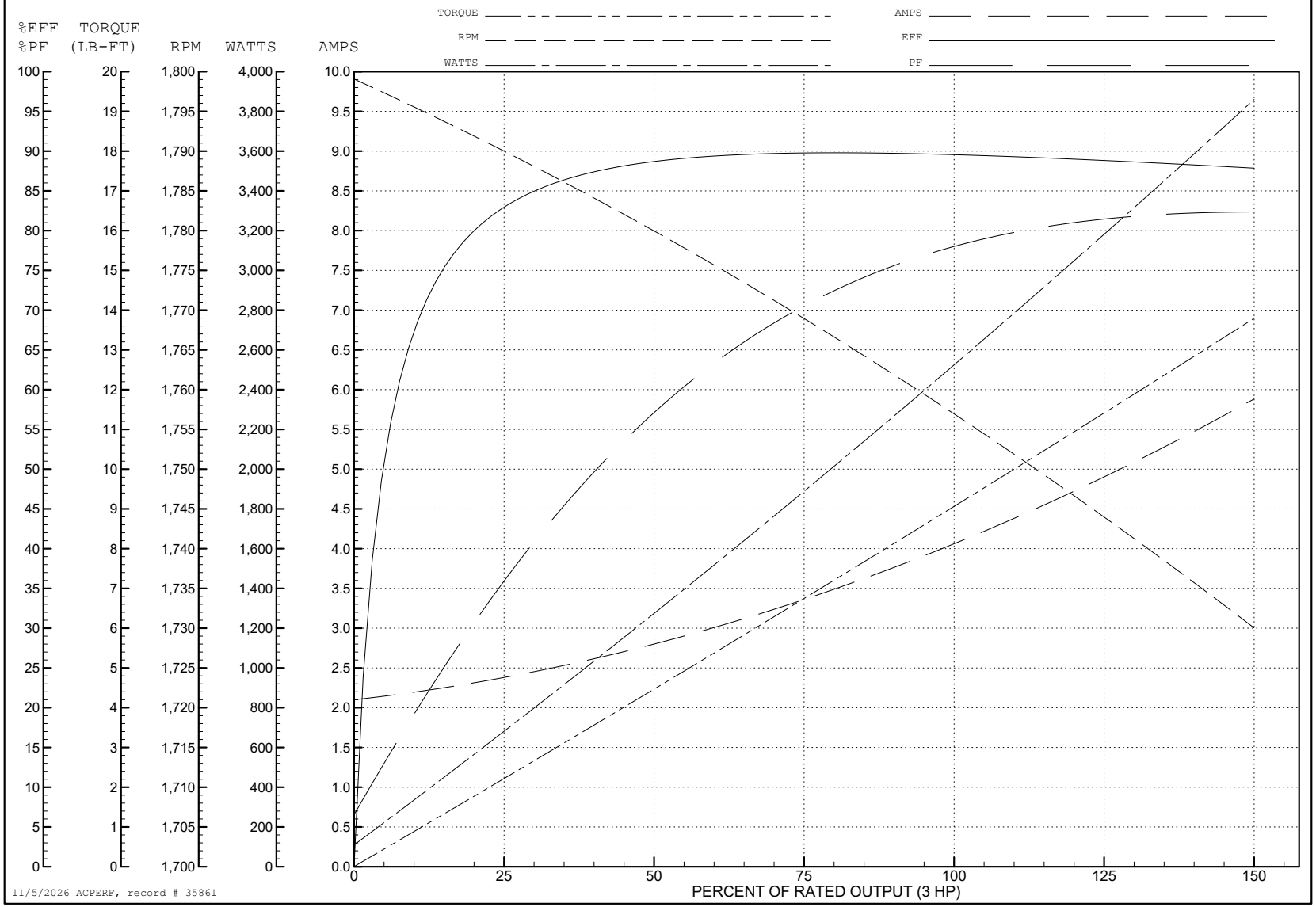
ABB Motors and Mechanical Inc.

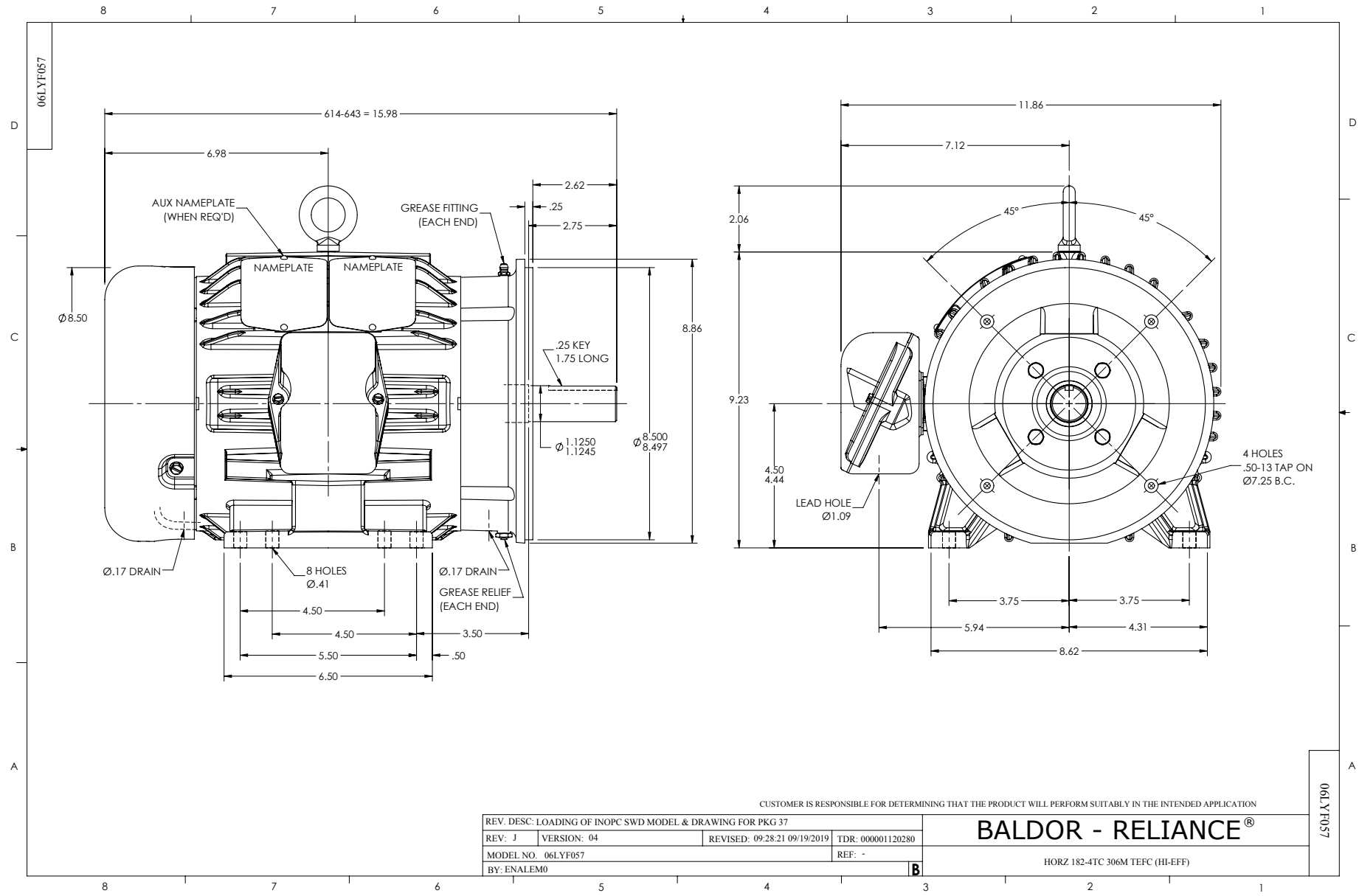
WINDING # 06WGX181

3 HP 3 PH 60 HZ 1755 RPM 460 V 0632M

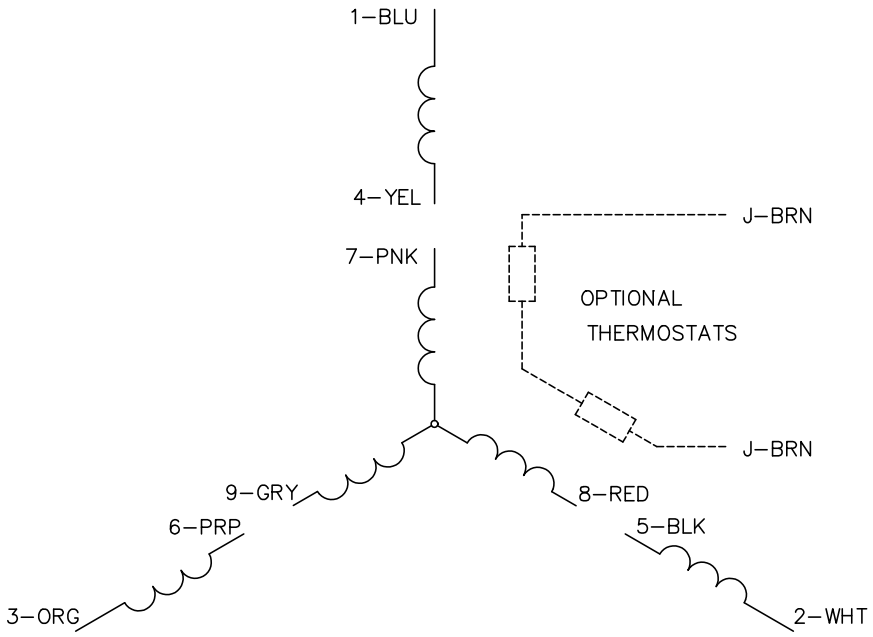
Typical performance - not guaranteed values.

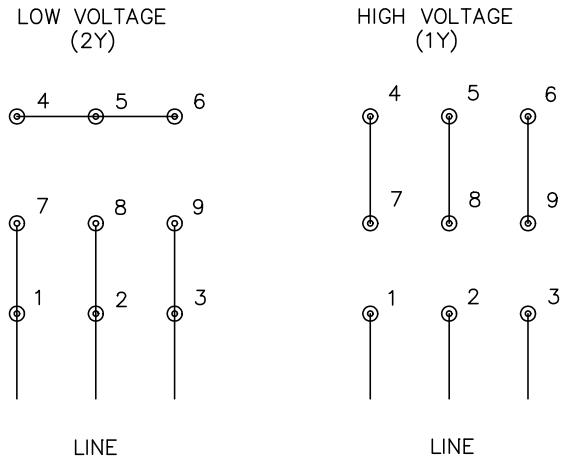
TORQUES(LB-FT): PO=33.1 PU=18.2 LR=20.4 LRA=29.8




06LYF057
614-643 = 15.98
6.98
AUX NAMEPLATE (WHEN REQ'D)
GREASE FITTING (EACH END)
2.62
.25
2.75
NAMEPLATE
NAMEPLATE
Ø8.50
8.86
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
Ø 8.500
8.497
Ø.17 DRAIN
8 HOLES
Ø.41
Ø.17 DRAIN
GREASE RELIEF (EACH END)
4.50
4.50
3.50
5.50
.50
6.50
11.86
7.12
2.06
45°
45°
9.23
4.50
4.44
LEAD HOLE
Ø1.09
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
3.75
3.75
5.94
4.31
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 37
REV: J
VERSION: 04
REVISED: 09:28:21 09/19/2019
TDR: 000001120280
MODEL NO. 06LYF057
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4TC 306M TEFC (HI-EFF)
06LYF057

CD0005




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |